DISPLAY SOLUTIONS FOR INTELLIGENT TRANSPORTATION SYSTEMS

Adaptive DISPLAY SOLUTIONS
Adaptive has been very responsive to our requests for support and have been proactive in reaching out to us to ensure our needs are being met. Their staff has a genuine interest in our success and has engaged us more as partners sharing the same pursuits rather than that of a standard customer - client relationship.

Charles Remkes, P.E., Chief
NMDOT ITS Operations
Founded in 1978, Adaptive Micro Systems, LLC (Adaptive), an ISO 9001 certified company, is a leading supplier of indoor and outdoor display solutions. The ALPHA® brand is the industry standard for multiple indoor applications as diverse as state lotteries to manufacturing automation. Adaptive’s outdoor displays are a popular choice for any outdoor dynamic display need ranging from commercial advertising to integrated transportation information systems.

Adaptive has provided the transportation industry with state-of-the-art LED based Dynamic Message Signs (DMS) for over 30 years. Adaptive’s broad DMS product range covers virtually every messaging application from roadside (Intelligent Transportation Systems (ITS)), to airport, bus and rail. Adaptive has an extensive portfolio of successful projects and has worked with many state DOTs across the U.S.

Whether the specifications call for small pitch bus shelter displays or large format over-the-highway DMS systems, Adaptive can manufacture LED displays in any character size, enclosure type, or LED color you require for your project.

Adaptive offers its ITS, transit, and roadway customers the most advanced deployment of NTCIP displays and controller software in the industry. Additionally, Adaptive provides the diagnostic software for your ITS solutions, combining user-friendly interfaces with maximum control and compatibility with a wide range of 3rd party TMC systems, utilizing state-of-the-art diagnostic software for display solutions. Adaptive’s Transportation DMS LEDs are manufactured with CREE (USA) LEDs.

Transportation is going places it never has been before – and Adaptive builds the LED display solutions to keep it running smoothly throughout the life of the DMS. The long life and versatility of Adaptive LED displays make them ideal for a variety of ITS requirements. Adaptive has manufactured and deployed the following: over-the-road DMS (both active traffic management and express lane tolling), variable speed limit signs, truck parking, travel time and trailblazer signs, both in amber or full-color ITS display options.

Meeting or exceeding the latest NTCIP, MUTCD and NEMA TS4 standards, Adaptive manufactures LED displays that are durable and designed to withstand the rigors of the roadway.

Adaptive is a voting member of the NEMA and NTCIP standards committees, and represented on the MUTCD sub-committee.
Adaptive’s Environmental Solution

- **Adaptive Front Access enclosures** prevent heat from circulating throughout the unit or rising and collecting in one location, and from overheating key components at the top of the sign housing.

Adaptive's newest technology designed to provide longevity to the LEDs and power supplies. In order to provide this high quality DMS, Adaptive has designed the environmental controls to provide two levels of protection. Level one protection utilizes an internal mixing fan designed to turn on and cool the electronics. Level two protection is designed to augment the cooling when level one cannot sufficiently cool the enclosure. This is accomplished at the high end of the temperature rating for the sign and exchanges outside air to bring the internal temperature down so that level one protection of internal mixing fans takes over.

**Adaptive’s Approach to Heat Management**

Outdoor displays are exposed to incredible extremes of heat, cold, wind, rain, fog, dust, and other environmental forces. Combine those exterior stresses with the interior stresses generated by a box full of heat-generating electronic components and you need to ask yourself, “How does a display adequately balance these influences, yet still offer reliable performance?”

- **Conformal-coated components** that can freely exchange any heat generated to inside the enclosure, unlike potted and insulated components which trap heat.
- **Gold-plated connectors** used for high-speed data lines offer greater efficiency, generate less heat, and insure long-term reliability.
- **Exclusive thermal/power management design of the PC board**, which wicks heat away from critical components and dissipates it readily and evenly throughout the rest of the enclosure.
- **Thermal Management Software** routines designed to protect critical components from damage due to high temperature conditions.

### 9700, 8700, 8600 Amber LED Series

Adaptive provides a unique system of LED pixel redundancy for high reliability of its display boards. The system is designed so that if any one LED failure occurs it does not cause the remaining LEDs in the same pixel or string of LEDs to go dark. This added value to the independent LED redundancy gives the extra time for repair of DMS displays on routine maintenance schedules without the need of expensive non-scheduled repairs and lane closures. Adaptive constantly looks for ways to improve its digital displays with contrast ratios and achieving optimum viewing characteristics with the least amount of brightness and power consumption.

Adaptive’s 9700 & 8700 series amber 18-inch character displays provide 8 LEDs per pixel on a typical amber 2.6” pitch, which helps from over driving the LEDs to achieve 40 plus Cds per pixel. Adaptive can keep the current to each LED to 20 mA and drive the LEDs at 60% to help extend the life of the LED 10-plus years of continuous operation. Adaptive’s 8600 series amber 12-inch character display utilizes 6 LEDs per pixel achieving 30 plus Cd per pixel, keeping the current at 20 mA and driving the LEDs below 70% capacity which in turn helps extend the life of the LEDs.
AX2000 Series of Full Colored DMS Walk-in Signs

Drivers respond much quicker to graphic images rather than text messages.

With ever increasing traffic conditions, roadway distractions and reading highway advisory signs, Adaptive's AX2000 full-color high-definition DMS is your solution! Providing simple MUTCD symbols and icons to convey traffic conditions over the roadways is more effective than providing standard text messages.

The AX2000 Series Walk-in Signs proposed by Adaptive offers the following benefits and exciting features to the ITS community.

Standard Key Features
- RGB Full Color / Full Matrix
- NEMA TS4 environmental rated
- MUTCD compliance
- 24V redundant current sharing power supplies
- 30° LED viewing
- 12400 Cd/m² per pixel white, 7440 Cd/m² amber
- Remote Firmware updates from HOST
- 20mm Pitch center to center spacing
- Walk-in service access to key components
- Certified 3rd party NTCIP 1203 V3 tested and compliant
## AlphaXpress 2000 Specifications

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<th>Feature</th>
<th>Details</th>
</tr>
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<td>20mm pitch RGB</td>
</tr>
<tr>
<td><strong>LED Color</strong></td>
<td>24 bit and classic color support</td>
</tr>
<tr>
<td><strong>Matrix</strong></td>
<td>900ft - 1200ft</td>
</tr>
<tr>
<td><strong>Viewability</strong></td>
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</tr>
<tr>
<td><strong>Dimming</strong></td>
<td>900ft - 1200ft</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>120/240 VAC</td>
</tr>
<tr>
<td><strong>Controller</strong></td>
<td>Ethernet connectivity</td>
</tr>
<tr>
<td><strong>Service Access</strong></td>
<td>Walk-in service access to key components</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-35° F to +165° F</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-34° C to +74° C</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>12400 Cd/m² (white)</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>7440 Cd/m² (amber)</td>
</tr>
<tr>
<td><strong>Design Capabilities</strong></td>
<td>255 graphic capacity</td>
</tr>
<tr>
<td><strong>Pixel Out Detection</strong></td>
<td>255 changeable message capacity</td>
</tr>
<tr>
<td><strong>Pixel Out Detection</strong></td>
<td>15 font capacity</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Remote update of controller firmware</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>NTCIP compliant</td>
</tr>
<tr>
<td><strong>Display Technology</strong></td>
<td>High Intensity LED</td>
</tr>
<tr>
<td><strong>Environment Control</strong></td>
<td>Full environmental control</td>
</tr>
<tr>
<td><strong>Message Activation</strong></td>
<td>Fast message activation</td>
</tr>
<tr>
<td><strong>Environmental Control</strong></td>
<td>Flexible I/O configurations</td>
</tr>
</tbody>
</table>

### Dimensions

- **Entire Sign Length (Bottom)**: 101.97in (20mm)
- **Entire Sign Length (Top)**: 106in (20mm)
- **High Intensity LED**:
  - 3 LEDs, Red, Green, Blue, one string for each color
  - 24000 candelas/m² (white)
  - 12400 candelas/m² (amber)
- **Sign Intensity**: 20000 candelas/m²
- **Pixel Pitch**: 20mm (.805in)
- **Pixel Characteristics**: 20mm pitch RGB
- **Pixel Matrix**: 96 Rows x 400 Columns
- **Border Width**: ~20mm
- **Active Display Area**: 96 Rows x 400 Columns
- **Display Type**: High Intensity LED
- **Cabinet Enclosure**: Aluminum NEMA 3R
- **Controller Location**: Controller in sign cabinet
- **Ventilation**: Automatic Photo Cells
- **Humidity Range**: 0 to 99%, Non-condensing
- **Operating Temp. Range**: -35° F to +165° F
- **Sign Intensity**: 12400 candelas/m² (white)
- **Sign Intensity**: 7440 candelas/m² (amber)
- **Weight**: 4500 lbs - Not including Mounting Beams
- **Weight of Mounting Beams**: 3188 lbs
- **Dimensions**: 106” H x 364” W x 38” D
- **Lift Points**: I-BEAMS ARE SUPPLIED BY OTHERS.
- **Communication Interfaces**: -34˚ C to +74˚ C
- **Power Requirements**: 1850 watts (Not including ancillary equipment)
- **Sign Cabinet**: High-intensity LED
- **Controller**: Ethernet (Standard), RS-232, RS-485, NTCIP compliant
- **Software**: Remote update of controller firmware NTCIP 1203 V3
- **Controller**: Single controller design
- **Message Activation**: Fast message activation

### Additional Information

- **NOTE**: Sub 500ms image disturbance during foreground pixel testing
- **Features**: Flexible I/O configurations

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*Source: AdaptiveDisplays.com/ITS*
The AX2020 Series of Arterial Signs proposed by Adaptive offers the following benefits and exciting features to the ITS community.

**Standard Key Features**

- Full Color (RGB) / Full Matrix
- 20mm Pitch center to center spacing
- NEMA TS4 environmental rated
- MUTCD compliance
- 24V redundant current sharing power supplies
- 70° LED viewing
- 12400 Cd/m² per pixel (White), 7440 Cd/m² (Amber)
- Remote Firmware updates from HOST System
- Front access service to key components
- Certified 3rd party NTCIP 1203 V3 tested and compliant
**AlphaXpress 2020 Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td><strong>LED Pixel</strong></td>
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<td>24 bit and classic color support</td>
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<tr>
<td><strong>Matrix</strong></td>
<td>100ft - 1200ft</td>
</tr>
<tr>
<td><strong>Viewability</strong></td>
<td>Automatic Photo Cells with</td>
</tr>
<tr>
<td></td>
<td>adjustable table</td>
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<tr>
<td><strong>Dimming</strong></td>
<td>Power</td>
</tr>
<tr>
<td></td>
<td>120/240 VAC</td>
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<tr>
<td><strong>Controller</strong></td>
<td>Ethernet connectivity</td>
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<tr>
<td></td>
<td>(RS232/422/485 optional)</td>
</tr>
<tr>
<td><strong>Service Access</strong></td>
<td>Front Serviceable</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-35° F to +165° F</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>-34° C to +74° C</td>
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<tr>
<td><strong>Brightness</strong></td>
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</tr>
<tr>
<td></td>
<td>7440 Cd/m² (amber)</td>
</tr>
</tbody>
</table>

**Design Capabilities**

- 255 graphic capacity
- 255 changeable message capacity
- 255 permanent message capacity
- 15 font capacity

**Pixel Out Detection**

- Foreground pixel test
- Background pixel test
- Individual LED issue detection
- Sub 500ms image disturbance during foreground pixel testing

**Software**

- Remote update of controller firmware

**Special Features**

- All different sign sizes in this series have interchangeable components
- Single controller design
- Fast message activation
- Flexible I/O configurations
AX3500 Series of Arterial Signs

The AX3500 Series of Arterial Signs proposed by Adaptive offers the following benefits and exciting features to the ITS community.

Standard Key Features

- Full Color (RGB) / Full Matrix
- 20mm Pitch center to center spacing
- NEMA TS4 environmental rated
- MUTCD compliance
- Redundant 24V current sharing power supplies
- 70° LED viewing
- 12400 Cd/m² per pixel (White), 7440 Cd/m² (Amber)
- Remote Firmware updates from HOST System
- Front access service to key components
- Certified 3rd party NTCIP 1203 V3 tested and compliant

Additional Features

- Standard with AX1024 Remote Power supplies
- Lightweight cabinet
- Thin profile
- Fast and easy to service components
- Mounting options:
  (a) Standard flush to static panel
  (b) Optional Z-Bar available to mount DMS to structure

AX3500 32 x 112; AX3500 32 x 32 - Installed on the Illinois Skyway
AlphaXpress 3500 Specifications

**LED Pixel**
20mm pitch RGB

**LED Color**
24 bit and classic color support

**Matrix**
100ft - 1200ft

**Viewability**
Automatic Photo Cells with adjustable table

**Dimming**

**Power**
120/240 VAC

**Controller**
Ethernet connectivity (RS232/422/485 optional)

**Service**
Front Serviceable

**Access**

**Operating**
-35° F to +165° F

**Temperature**
-34°C to +74°C

**Brightness**
12400 Cd/m² (white)
7440 Cd/m² (amber)

**Design Capabilities**
255 graphic capacity
255 changeable message capacity
255 permanent message capacity
15 font capacity

**Pixel Out Detection**
Foreground pixel test
Background pixel test
Individual LED issue detection
Sub 500ms image disturbance during foreground pixel testing

**Software**
Remote update of controller firmware

**Special Features**
All different sign sizes in this series have interchangeable components
Single controller design
Fast message activation
Flexible I/O configurations

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**NOTES:**
- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
- ALL DESIGN AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- ALL MATERIALS ARE PAINTED BLACK EXCEPT WHERE SPECIFIED.
- 1-1/2 IN. HOLE TO PANEL IS 13/32 IN. DIAMETER.
- SCALE 1:2
- Drawing is for reference only. Use factory print for current details.
- Productions Drawings and Designs are the Property of Adaptive Displays, LLC and shall not be reproduced without permission.

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**Recommended Holes and Holes in Static Panel for Surface Mounting**

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**Instructions:**
1. When replacing an LED module:
   - Disconnect DC power connection 2.
   - Disconnect Communications cable 3.
   - Connect DC power supply first 4.
   - Loosen quantity 8 captive Phillips head screws on LED module to access the Communication and Power connections.

2. When removing an LED module:
   - Disconnect Communications cable first 1.
   - Disconnect DC power supply 2.
   - Loosen quantity 8 captive Phillips head screws on LED module to access the Communication and Power connections.

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**Milwaukee, WI 53224 USA**

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**AlphaXpress 3500 Specifications: SRE 5605001DRA**

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**Rev. Description**
- ECO by Date:
  - 12/9/2015
  - 3/14/2016

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**Dimensions are in inches and tolerances are as follows unless otherwise specified:**
- ±1°
- ±0.008
- ±0.02
- ±0.1

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**All different sign sizes in this series have interchangeable components.**

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**Single controller design.**

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**Fast message activation.**

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**Flexible I/O configurations.**
AlphaXpress Variable Speed-Limit & Lane Control Signs Series

AlphaXpress Variable Speed-Limit & Lane Control Signs Series is the choice for the future of VSLS & LCS on the highways and Tollways with the required white background and black lettering designed for low maintenance with remote NTCIP 1203 V3 controller and TS4 redundant power supplies mounted in ground cabinet.

Standard Key Features

- NEMA TS4 Compliant
- MUTCD Road Symbols Sign compliancy
- Front access or rear access options available
- RGB – 30°/70° viewing options
- NTCIP 1203 V3 Compliant
- NEMA 3R cabinet
- Leading industrial strength Eco friendly Powder Coating on front face aluminum door panels - Kynar available as an option
- Certified 3rd party NTCIP 1203 V3 tested and compliant
**AlphaXpress 2080 Specifications**

- **LED Pixel**: 20mm pitch RGB
- **LED Color**: 24 bit and classic color support
- **Matrix**: 900ft - 1200ft
- **Viewability**: Automatic photocells
- **Dimming**: 120 VAC
- **Controller**: Ethernet connectivity
  Communicate using either UDP/TCP or both
  Multiple different network port assignments. Each port assignment can be marked for central or local designation (RS232/422/485 optional)
- **Service Access**: Front or rear servicable options
- **Operating Temperature**: -35° F to +165° F
- **Design**: 255 graphic capacity
- **Capabilities**: 255 changeable message capacity
  255 permanent message capacity
  15 font capacity
- **Pixel Out Detection**: Foreground pixel test
  Background pixel test
  Individual LED issue detection
  Sub 500ms image disturbance during foreground pixel testing
- **Software**: Remote update of controller firmware from host system
- **Special Features**: All different sign sizes in this series have interchangeable components
  Single controller design
  Fast message activation
  Flexible I/O configurations

**Brightness**
- 12400 Cd/m² (white)
- 7440 Cd/m² (amber)

**Design Capabilities**
- 255 changeable message capacity
- 255 permanent message capacity
- 15 font capacity
AlphaXpress 9700 Series

AX9700 Series AlphaXpress Walk-In DMS

Walk-In Access Makes Maintenance Fast and Easy!

If Dynamic Message Signs are part of your roadway system, you know that they serve a critical role in keeping traffic running smoothly. You need a unit that requires minimal maintenance, and one that can be easily accessed for the fastest possible service.

The 9700 Series of DMS products from Adaptive meets this demand like no other. Housed in heavy-duty aluminum, for a 20 plus year lifespan, our displays can handle the worst that nature and traffic can dish out. The walk-in design allows servicing to take place with minimal interruption and maximum safety.

Standard Key Features

- Amber
- NEMA TS4 compliant
- 24V redundant power supplies
- 30° LED viewing (40Cd plus per 8 LEDs per pixel) (7440 Cd/m²)
- Walk-in service access to key components
- Independent LED circuitry — if one LED fails, others on the same string will not be affected
- NTCIP 1203 V3 hardened controller
- Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option

AX9700 27 x 126 - Florida Project - 10 years installation
Optional field adjustable mounting I-beams +/- 4 inches

Non-slip walkways

NTCIP 1203 V3 hardened controller with remote diagnostics

Plug and Play displays with self-addressing plugs. Communications not affected if display is damaged or removed from sign.

Self Diagnostic LED readout for visual trouble-shooting

Independent LED circuitry — if one LED fails, others on the same string will not be affected

### PIXEL LAYOUT

<table>
<thead>
<tr>
<th>ROW</th>
<th>COLUMNS</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>MAXIMUM NUMBER OF LINES</th>
<th>CHARACTERS PER LINE</th>
<th>WEIGHT*</th>
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<tr>
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<td>90</td>
<td>89.00”</td>
<td>253.20”</td>
<td>38.25”</td>
<td>3</td>
<td>15 (5 x 7 font)</td>
<td>2900 lbs.</td>
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<tr>
<td>27</td>
<td>108</td>
<td>89.00”</td>
<td>300.00”</td>
<td>38.25”</td>
<td>3</td>
<td>18 (5 x 7 font)</td>
<td>3400 lbs.</td>
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<tr>
<td>27</td>
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<td>89.00”</td>
<td>346.80”</td>
<td>38.25”</td>
<td>3</td>
<td>21 (5 x 7 font)</td>
<td>4000 lbs.</td>
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</tbody>
</table>

*All weight specifications are approximations. Consult factory for more details.
AlphaXpress 8700 DMS Series

Front Access Modular Design - Dynamic Message Sign

Built to withstand the worst that the elements and the roadway can deliver, the 8700 series of DMS from Adaptive has been designed to maximize performance and minimize maintenance.

Adaptive offers a wide range of custom configurations from Travel Times to Variable Pricing for Hotlanes applications all the way up to full matrix with the interchangeability in 18-inch displays.

Standard Key Features

- Amber
- NEMA TS4 compliant
- 24V redundant power supplies
- Lightweight sign cabinets
- 30° LED viewing (40Cd plus per 8 LEDs per pixel) (7440 Cd/m²)
- Front access to individual cabinets and key components
- Independent LED circuitry — if one LED fails, others on the same string will not be affected
- NTCIP 1203 V3 hardened controller
- Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option

Virginia Beach Travel Time System

AX8700 27 x 108 - 10 years installed Illinois Skyway
Independent LED circuitry — if one LED fails, others on the same string will not be affected.

Front access to key components.

Outside air exchange for cooling in extreme conditions.

24V Redundant TS4 Power Supply.

Powder Coated removable front face panels from any road damage.

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### ONE LINE

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### TWO LINES

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**Independent LED circuitry** — if one LED fails, others on the same string will not be affected.

**Front access to key components**.

**Outside air exchange for cooling in extreme conditions**.

**24V Redundant TS4 Power Supply**.

**Powder Coated removable front face panels from any road damage**.
AlphaXpress 8600 Series

AlphaXpress 8600 DMS Series

Arterial Dynamic Message Sign that meets today’s MUTCD standards

AlphaXpress 8600 is the successor of the 8700 series with its proven track record for over 10-years, designed for Arterial and Highway applications using the MUTCD and NEMA TS4 standard as its design guide.

Standard Key Features

- Amber
- NEMA TS4 compliant
- MUTCD compliant
- 24V redundant power supplies
- 30° LED viewing (35Cd per 6 LEDs) 7440 Cd/m²
- Front access to individual cabinets and key components
- Independent LED circuitry — if one LED fails, others on the same string will not be affected
- NTCIP 1203 V3 hardened controller
- Leading industrial strength Eco friendly Powder Coating on front face panels - Kynar available as an option
Independent LED circuitry — if one LED fails, others on the same string will not be affected

Front access to key components

Outside air exchange for cooling in extreme conditions

120 mph wind frame

Powder Coated removable border panels

Redundant TS4 Power Supply 24 volt

### ONE LINE

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AX1550 DMS Roadside Controller remote NTCIP controller/power supply

The AX1550 DMS roadside controller is remotely mounted in a standard 19” rack ground cabinet for easy access to the NTCIP controller to perform diagnostics, troubleshooting, and message activation. All is performed safely from the side of the highway, by connecting to the local ethernet or serial port on the front of the AX1550. The Service Technician can comfortably perform all commands from the comfort of a vehicle if desired.

Standard Key Features

- Distance from the sign to the ground cabinet:
  300 feet with copper use of fiber converter extends this distance.
- Access 1-16 DMS from same controller
  I.P. Address (WAN) for each location with multiple DMS
- I/O custom configurable
- Standard I/O = Doorswitch, UPS

AX1024 DMS 19” Rack Mounted Remote Cabinet 24 Volt Redundant Power Supply

Adaptive’s 24V Power Supply is removed from the DMS and is remotely mounted in the control cabinet for simpler access for diagnostics and troubleshooting. A technician can safely replace the power supply within 30 minutes without disrupting traffic. This option is primarily for Lane Control Signs, Variable Speed Limit Signs and Trailblazer Signs with limited access and required installation space.

Standard Key Features

- NEMA TS4 compliant
- 19-inch rack mountable housing
- Redundant current sharing power supply

Note 1: Not available for all sign sizes contact Adaptive for information.
Note 2: Max distance from the sign is dependent on sign type and size.
Installations
Adaptive Micro Systems, LLC Customer Service

Adaptive holds customer service at the foundation of our organization and is woven into every experience we deliver to our customers. We take pride in being responsive to our customers’ needs and providing continuous technical support.

Features

- 24/7 phone support with call back within two hours during off-peak hours for warranty products
- 48 hour turn around on most Adaptive spare parts
- Pre-maintenance provided upon request with a 3-4 week lead time with a 1-3 year extended warranty proposal
- Firmware updates provided on warrantied Adaptive ITS DMS
- Firmware updates from host system or direct from Adaptive
- Recommended spare parts packages for out-of-warranty DMS
- E-mail tech support on out-of-warranty DMS
- On-site commissioning
- On-site training
- Online training for continued training support

For more information contact Jessie Swinea at jessie.swinea@adaptivedisplays.com.
Adaptive Quality Policy

Adaptive Micro Systems, LLC will provide products and services that will meet or exceed our customer’s expectations in quality, reliability and performance. To achieve this AMS will be continuously improving in the areas of development, design, manufacturing, distribution and marketing.